

CLAIMS

WHAT IS CLAIMED:

1. A method for controlling transitions between a first and second clock frequency signal in first and second components electrically coupled together and in communication with one another, comprising:

asserting a freeze signal to cause communications between the first and second components to cease;

receiving a freeze acknowledge signal from the first and second components indicating that communications there between have ceased; and

delivering a change signal to the first and second components to cause the components to switch between the first and second clock frequency signals.

2. An apparatus for controlling transitions between a first and second clock frequency signal in first and second components electrically coupled together and in communication with one another, comprising:

means for asserting a freeze signal to cause communications between the first and second components to cease;

means for receiving a freeze acknowledge signal from the first and second components indicating that communications there between have ceased; and

means for delivering a change signal to the first and second components to cause the components to switch between the first and second clock frequency signals.

3. An apparatus, for controlling transitions between a first and second clock frequency signal, comprising:

a first component capable of receiving a freeze signal and delivering an acknowledge
signal after communications therefrom have been ceased;

a second component capable of receiving the freeze signal and delivering an
acknowledge signal after communications therefrom have been ceased; and

5 a controller capable of delivering the freeze signal requesting that the first and second
components cease communications therebetween, and transitioning between
the first and second clock signals in response to receiving the acknowledge
signals from the first and second components.

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